

9-12 Content Area	Standard	Guides to Standard	Reflect	Discover	Imagine	Create	Share	Alignment to IM Student Project Outcomes:
History & Nature of Science	Understanding of science as a human endeavor	Individuals and teams have contributed and will continue to contribute to the scientific enterprise. Doing science or engineering can be as simple as an individual conducting field studies or as complex as hundreds of people working on a major scientific question or technological problem. Pursuing science as a career or as a hobby can be both fascinating and intellectually rewarding.		x	x	x		Engagement OM 2.4.5
	Understanding of historical perspectives	In history, diverse cultures have contributed scientific knowledge and technologic inventions. Modern science began to evolve rapidly in Europe several hundred years ago. During the past two centuries, it has contributed significantly to the industrialization of Western and non-Western cultures. However, other, non-European cultures have developed scientific ideas and solved human problems through technology.		x				Engagement OM 2.4.5
		Usually, changes in science occur as small modifications in extant knowledge. The daily work of science and engineering results in incremental advances in our understanding of the world and our ability to meet human needs and aspirations. Much can be learned about the internal workings of science and the nature of science from study of individual scientists, their daily work, and their efforts to advance scientific knowledge in their area of study.		x	x	x		
		Occasionally, there are advances in science and technology that have important and long-lasting effects on science and society. Examples of such advances include the following: Copernican revolution; Newtonian mechanics; Relativity; Geologic time scale; Plate tectonics; Atomic theory; Nuclear physics; Biological evolution; Germ theory; Industrial revolution; Molecular biology; Information and communication; Quantum theory; Galactic universe; Medical and health technology		x	x	x		
		The historical perspective of scientific explanations demonstrates how scientific knowledge changes by evolving over time, almost always building on earlier knowledge.		x				